

IB. AMENDMENTS TO THE CLAIMS

Cancel claim 8 without prejudice to renewal.

Please enter the amendments to claim 1, as shown below.

Please enter new claims 28 and 29, as shown below.

1. (Currently Amended) A method of detecting an increased susceptibility to bipolar mood disorder (BP) in an individual comprising:

a) analyzing a sample of DNA from a test individual for the presence of a DNA polymorphism associated with BP on the short arm of chromosome 18 between SAVA5 and ga203; b) performing a pedigree analysis by analyzing DNA samples obtained from family members of the test individual for the presence of the DNA polymorphism and correlating the presence or absence of the DNA polymorphism with a phenotypic diagnosis of bipolar mood disorder for said individual or for said family members, wherein ~~the presence in the test individual of a polymorphism associated with BP which is present on a disease chromosome~~ a correlation indicates that the test individual has an increased susceptibility to develop BP.

2. (Previously Amended) The method of claim 1, wherein said DNA polymorphism is located on the short arm of chromosome 18 between and inclusive of D18S1140 and ga203.

3. (Previously Amended) The method of claim 1, wherein said DNA polymorphism is located on the short arm of chromosome 18 between and inclusive of SAVA5 and W3422.

4. (Previously Amended) The method of claim 1, wherein said DNA polymorphism is located on the short arm of chromosome 18 between and inclusive of D18S11 and W3422.

5. (Previously Amended) The method of claim 1, wherein said DNA polymorphism is located on the short arm of chromosome 18 between and inclusive of D18S1140 and at201.

6. (Previously Amended) The method of claim 1, wherein said DNA polymorphism is located on the short arm of chromosome 18 between and inclusive of D18S1140 and ta201.

7. (Previously Amended) The method of claim 1, wherein said DNA polymorphism is located on the short arm of chromosome 18 between and inclusive of D18S59 and ta201.

8. (Canceled)

9. (Previously Amended) A method for detecting the presence of a bipolar mood disorder (BP) susceptibility DNA polymorphism in an individual phenotypically diagnosed as having BP, the method comprising:

- a) typing blood relatives of said individual for a DNA polymorphism located within a 500kb region of chromosome 18, wherein said region is located between and inclusive of SAVA5 and ga203; and
- b) analyzing a DNA sample from said individual for the presence of said DNA polymorphism, wherein a sharing of said DNA polymorphism in said region between the individual and a blood relative who has been phenotypically diagnosed as having BP is an indication that the polymorphism is a BP susceptibility polymorphism.

10. (Previously Amended) A method of genetically diagnosing bipolar mood disorder in an individual comprising:

analyzing a DNA sample obtained from a test individual for the presence of a DNA polymorphism associated with bipolar mood disorder, wherein said DNA polymorphism is located within a 500 kb region of chromosome 18, wherein said region is located between and inclusive of SAVA5 and ga203, wherein the presence in the test individual of a polymorphism which is present on a disease chromosome indicates that the individual has bipolar mood disorder.

11. (Previously Amended) A method of confirming a phenotypic diagnosis of bipolar mood disorder in an individual comprising:

analyzing a DNA sample obtained from a test individual phenotypically diagnosed as having bipolar mood disorder for the presence of a DNA polymorphism associated with bipolar mood disorder, wherein said DNA polymorphism is located within a 500 kb region of chromosome 18, wherein said region is located between and inclusive of SAVA5 and ga203, wherein the presence in the test individual of the polymorphism which is present on a disease chromosome confirms a phenotypic diagnosis of bipolar mood disorder.

12. (Original) The method of claim 10, wherein said individual has Spanish or Amerindian ancestry.

13.-24. (Cancelled)

25. (Previously Added) The method of claim 1, wherein the polymorphism is a polymorphic microsatellite marker.

26. (Previously Added) The method of claim 25, wherein the polymorphism is a single nucleotide polymorphism.

27. (Previously Added) A method of detecting the presence of a bipolar mood disorder susceptibility polymorphism in an individual comprising:

analyzing a sample of DNA from said individual for the presence of a DNA polymorphism on the short arm of chromosome 18 between SAVA5 and ga203; and

determining the frequency of the polymorphism on disease chromosomes and non-disease chromosomes, wherein an overrepresentation of the polymorphism on disease chromosomes indicates that the DNA polymorphism is associated with a form of bipolar mood disorder.

-- 28. (New) A method of detecting an increased susceptibility to bipolar mood disorder (BP) in an individual comprising:

analyzing a DNA sample from said individual for the presence of a polymorphic microsatellite marker, wherein the marker is a 154 base pair allele at D18S59, and wherein the presence of the marker is indicative of an increased susceptibility to BP.

29. (New) A method of detecting an increased susceptibility to bipolar mood disorder (BP) in an individual comprising

analyzing a DNA sample from said individual for the presence of a polymorphic microsatellite marker, wherein the marker a 271 base pair allele at D18S476, and wherein the presence of the marker is indicative of an increased susceptibility to BP. --